

IN THE CLAIMS

1. (Currently Amended) A transmission system for transmitting a signal from a transmitter to a receiver, the receiver comprising:

an interference absorption circuit for detecting interference components included in the signal and for substantially removing, during a time interval, the interference components from the signal;

wherein the interference absorption circuit is arranged for adapting the time interval in dependence on the duration of the individual interference components and comprises delay means connected in series with interference removal means.

2. (Previously Presented) A transmission system according to Claim 1, wherein the time interval is substantially equal to the duration of the individual interference components.

3. (Previously Presented) A transmission system according to Claim 1, wherein the interference absorption circuit comprises a circuit input for receiving the signal, interference detection means coupled to the circuit input for detecting the interference components included in the signal, and interference removal means coupled to the circuit input for substantially removing the interference components from the signal, an output of the interference detection means being coupled to an input of the interference removal means.

4. (Previously Presented) A transmission system according to Claim 3, wherein the interference detection means are arranged for generating and supplying to the output an interference presence signal indicative of the presence of the interference components in the signal, the interference removal means being arranged for substantially removing the interference components from the signal in dependence on the interference presence signal received at the input.

5. (Previously Presented) A transmission system according to Claim 4, wherein the interference detection means are arranged for generating the interference presence signal in dependence on the duration of the individual interference components.

6. (Previously Presented) A transmission system according to Claim 4, wherein the interference detection means comprise timing means for generating the interference presence signal.

7. (Previously Presented) A transmission system according to Claim 6, wherein the interference detection means further comprise an interference detector coupled to the timing means for detecting the interference components in the signal, the timing means comprising a multiple triggerable pulse timer, the interference detector being arranged for generating and supplying to the timing means a number of trigger pulses, the number of trigger pulses being dependent on the duration of the interference components.

8. (Previously Presented) A transmission system according to Claim 7, wherein the interference absorption circuit comprises a desensitizer for temporarily disabling at least one of the interference detection means and the interference removal means when a repetition rate of the interference components is too high.

9. (Currently Amended) A transmission system according to Claim 3, wherein ~~the interference absorption circuit further comprises delay means for delaying the signal,~~ the interference removal means being coupled to the circuit input via the delay means, the delay introduced by the delay means being substantially equal to the delay introduced by the interference detection means.

10. (Currently Amended) A receiver for receiving a signal from a transmitter the receiver comprising:

an interference absorption circuit for detecting interference components included in the signal and for substantially removing, during a time interval, the interference components from the signal;

wherein the interference absorption circuit is arranged for adapting the time interval in dependence on the duration of the individual interference components and comprises delay means connected in series with interference removal means.

11. (Currently Amended) An interference absorption circuit for detecting interference components included in a signal and for substantially removing, during a time interval, the interference components from the signal wherein the interference absorption circuit is arranged for adapting the time interval in dependence on the duration of the individual interference

components and comprises delay means connected in series with interference removal means.

12. (Currently Amended) A method, comprising the steps of:
detecting interference components included in a signal; and
substantially removing, during a time interval, the
interference components from the signal using a delayed version of
said signal generated by introducing a delay into the signal;

wherein the time interval is adapted in dependence on the
duration of the individual interference components.

13. (Previously Presented) The method of Claim 12, wherein
the time interval is substantially equal to the duration of the
individual interference components.

14. (Previously Presented) The method of Claim 12,
further comprising generating an interference presence signal
indicative of the presence of the interference components in the
signal; and

wherein substantially removing the interference components
comprises substantially removing the interference components from
the signal in dependence on the interference presence signal.

15. (Previously Presented) The method of Claim 14, wherein

generating the interference presence signal comprises generating the interference presence signal in dependence on the duration of the individual interference components.

16. (Previously Presented) The method of Claim 12, wherein detecting the interference components comprises:

generating a number of trigger pulses, the number of trigger pulses being dependent on the duration of the interference components;

triggering a multiple triggerable pulse timer using the number of trigger pulses; and

generating an interference presence signal at the multiple triggerable pulse timer, the interference presence signal comprising information related to the duration of the individual interference components.

17. (Previously Presented) The method of Claim 12, further comprising temporarily disabling at least one of an interference detection module and an interference removal module when a repetition rate of the interference components is too high.

18. (Currently Amended) The method of Claim 12, ~~further comprising delaying the signal by a delay, and~~ wherein the delay introduced into the signal is substantially equal to a delay

introduced during the step of substantially removing the interference components from the signal.

19. (Previously Presented) The receiver of Claim 10, wherein the interference absorption circuit comprises:

a circuit input for receiving the signal;

an interference detection module coupled to the circuit input for detecting the interference components included in the signal; and

an interference removal module coupled to the circuit input for substantially removing the interference components from the signal, an output of the interference detection module being coupled to an input of the interference removal module.

20. (Previously Presented) The receiver of Claim 19, wherein:

the interference detection module is arranged for generating and supplying to the output an interference presence signal indicative of the presence of the interference components in the signal; and

the interference removal module is arranged for substantially removing the interference components from the signal in dependence on the interference presence signal received at the input.